POPOV, D. Trade-union activity on the state farm. Sov.profeciuzy 2 no.5:56-59 My 154. PROPERTY OF THE PARTY OF THE PA 1. Predsedatel rabochego komiteta ptitsevodcheskogo sovkhoza im. MYuD, (State farms) Orlovskoy oblasti.

: Bylgaria COGNTRI CATUGORY ABU. ICUR. : RZKhim., Ho. 16 1959, No. 57176 : Pepov, U. ROFFUA : Not given INST. : Consistency and Structure of Enamel Slips 171263 ORIG. PUB. : Leka Promishlenost, 7, No 11, 22-25 (1956) : The author describes methods used in the deter-ABSTRACT mination of the consistency of enamel slips (ES) by the use of viscometers and other devices, and discusses the fluidity and other rheological properties of ES as a function of water content, the concentration of structure-forming agents (clays, bentonite, kaolin) and of electrolytes  $(Ns_0 CO_3$ ,  $Ne_2 F_0 O_7$ ): the part played by 'damping agents' [fillers?] and by the other components in the process of structure formation is noted. Ya. Satunovskiy SARD: 1/1

4. 香港市

Pharmacology and Toxicology

BULGARIA

PCPOV, D., Higher Veterinary-Medical Institute, Sofia

"Synthesis of 1, 4-Unsymmetrically Substituted Piperazines. Preparation of 1-Pheny1-4-Ary1-Piperazines"

Sofia, Doklady Bolgarskoy Akademii Nauk, Vol 19, No 12, 1966, pp 1163-1166

Abstract: [English article] A large number of substances of symmetrically and nonsymmetrically substituted 1, 4-piperazines have been synthesized which have shown central depressive action. The present paper describes the condensation of phenyl-substituted bis-2-chlorethylamine with aromatic amines leading to the production of nonsymmetrically substituted 1, 4-piperazines. In order to obtain 1-phenyl-4-arylpiperazines, use was made of the reaction between bis-2-chlorethylamiline (lymphochin) with aryl- or substituted arylamines which, in comparison with the method of Cerkovnikov and Stern (Archiv Kemi., 18, 1946, 12, 27), proceeded under exceptionally mild conditions. A detailed description of the piperazine production is followed by a table listing the melting point and nitrogen content of 27 newly produced compounds only two which are found described in literature. References: 1 Bulgarian and 12 Western. (Manuscript received, 24 Aug 66.)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R00134

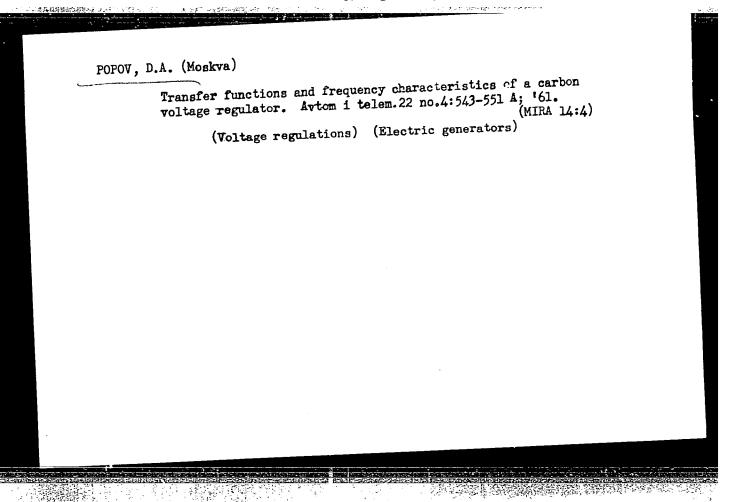
Investigation of the stability of identical d.c. generators in parallel operation. Izv.AN SSSR. Otd.tekh.nauk. Energ. i avtom. no.5:33-43 S-0 '60. (MIRA 13:11) (Electric generators)

POPOV, D.A. (Moskva)

Frequency characteristics of d.c. generators. Izv.AN SSSR. Otd. tekh. nauk Energ. i avtom no.1:47-55 Ja-F '61. (MIRA 14:3) (Electric generators—Direct current)

Concurrent selection of the gear ration of the reduction gear and the parameters of an electric motor. Elektrichestvo no.7: and the parameters of an electric driving)

(Electric driving)



POPOV, D.A., (Moskva)

Frequency characteristics of autonomous electrical systems.

Elektrichestvo no.6:18-27 Je 163. (MRA 16:7)

(Electric generators) (Frequency regulation)

SOURCE CODE: UR/0181/66/008/007/2248/2250 IJF(c)L 05629-67 EWT(1)/T AP6024501\_\_\_\_ ACC NR:

AUTHOR: Bordina, N. M.; Vasil'yev, A. M.; Popov, D. A.

ORG: none

TITLE: Influence of internal field on diffusion in semiconductors

SOURCE: Fizika tverdogo tela, v. 8, no. 7, 1966, 2248-2250

TOPIC TAGS: physical diffusion, semiconductor impurity, impurity level, semiconductor carrier, carrier density

ABSTRACT: It is shown that certain observed peculiarities accompanying diffusion in semiconductors can be attributed to the influence of electric fields. It is proposed that the field can be assumed homogeneous, and a rule is given for the determination of this field. Actually, however, the field is inhomogeneous and it is more correct to use a different approximation. For concreteness, diffusion of donors in an intrinsic semiconductor is considered. The differential equation of donor diffusion is obtained for a field determined by the Poisson equation, under the assumption that the electrons and holes are in equilibrium during diffusion. The expression for the diffusion is obtained in terms of a fictitious surface density and is found to agree well with experimental data. When the surface density of the diffusing impurity is smaller than the density of the intrinsic carriers, the diffusion has in first approximation the usual character. When the surface density exceeds the intrinsic value, there exists a gently sloping region which corresponds to diffusion with a dual diffusion co-

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BENDERSKIY, V. A., BLYUMENFEL'D, L. A. and POPOV, D. A., Institute	
of Chemical Physics, Academy of Sciences 255 (No. 111. Confiziki AN SSSR)  Charge Transfer Conditions in Organic Systems. III. Conductivity Zone and the Excited Status of Molecules in Organic Semiconductors (7)  Moscow. Zhurnal Strukturnoy Khimii. Vol. 7, No. 3, 1966, pp. 370-	42 B
Abstract: In organic semiconductors the relative position of the levels of the polar and nonpolar excitations can be arbitrary. the levels of the former should lay close to It is shown that the levels of the former should lay close to the lower levels of excitation of the isolated molecule. The spectrum and wave functions of the polar states are found in spectrum and wave functions of the polar states are found in the approximation of a strong bond for a uni-dimensional model, with a weak intramolecular interaction the lower levels of this with a weak intramolecular interaction the lower levels of this branch corresponds to electron transfer between molecules with a definite relative distance, and with its increase the wave functions are diffused upon capturing several molecules and	
Cord 1/2  UDC: 541.67	

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L 05207-67

ACC NR: AP7000756

approaching the s-functions of the hydrogen atoms. The greater the intramolecular interactions and the lower the levels of the free carriers, the more the transfer is described as a hydrogen-like model at lower relative distances of the exciton. The probabilities of the optical transitions into the polar states are low and rapidly decrease with growth of their number so that they do not appear in the absorption spectrum. Orig. art. has: 1 figure, 2 formulas and 1 table. [JPRS: 37,177]

TOPIC TAGS: organic semiconductor, wave function

SUB CODE: 20 / SUBM DATE: O6Dec65 / ORIG REF: O10 / OTH REF: O16

Card 2/2 9

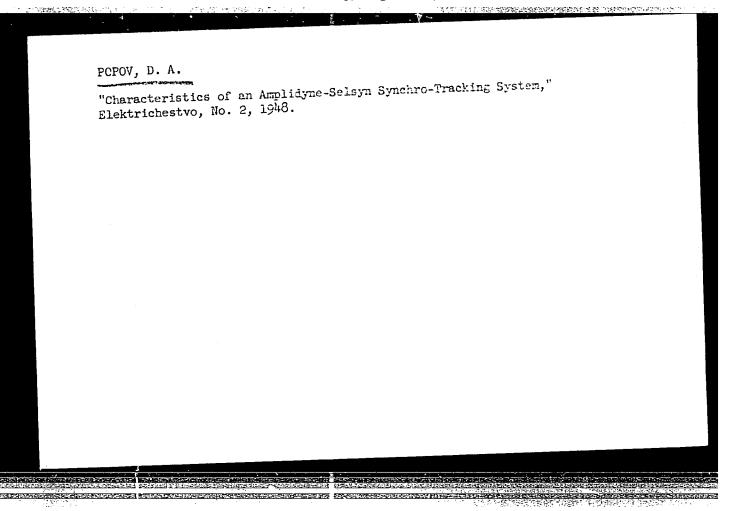
POPOV, D. A., Engineer

Caml. Technical Sci.

"Regulating the Speed of Electric Drives in Airplane Mechanisms."
Sub 6 Jun 47, Moscow Order of Lenin Power Engineering Inst imeni V. M. Molotov

Dissertations presented for degrees in science and engineering in Moscow in 1947.

SO: Sum.No. 457, 18 Apr 55



POPOV, D. A.

: A >2/list2

Ut SF/Academy of Sciences Automatic Regulations

Jul 1:9

"Scientific Seminar of the Institue of Automatics and Telemechanics on Automatic - Electric Drive," I. V. Utkin, 5 pp

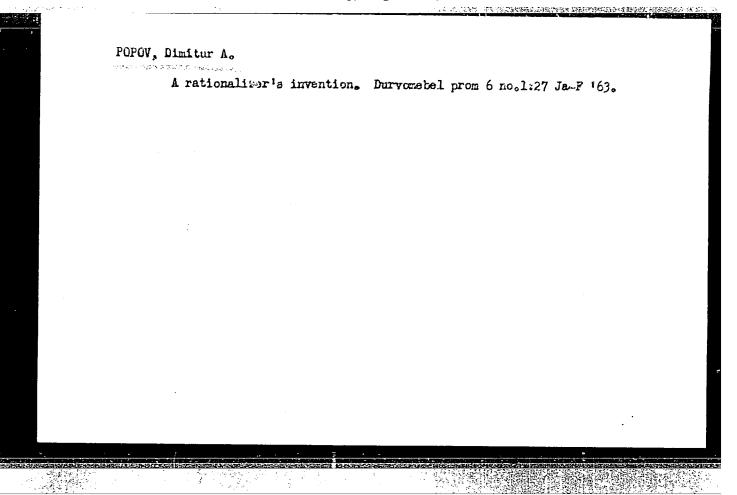
"Iz Ak Hauk SISE, Otdel Tekh Hauk" No 7

At the seminar, attended by about 100 scientific and engineering-technical workers of Moscow, reports submitted included: V. 5. Kulebakin's "Theory of the Impulse Method of Regulating Speed in Electric Motors," F. A. Goryayaov's "Operation of an Electrical (Rototrol) in Ecgulation 5 stems," and D. A. Popov's "Characteristics of Aircraft Electric Drive." Two sessions were devoted to the report, "Prequency Method of Analyzing the Quality of a Serveelectric Brive."

POPOV, Dmitriy Aleksandrovich prof. [deceased]; KORCHUNOV, Nikolay Grigor'yevich prof.; KUKLINOV, Boris Alekseyevich, dots.; MENSHUTKIN, Yakov Grigor'yevich, dots.; KUVALDIN, Boris Ivanovich, dots.; ALYSHEV, Ivan Fedorovich, dots.; SHCHELKUNOV, Valentin Vasil'yevich, dots.; NIKOL'SKIY, Boris Vasil'yevich, dots.; KORUNOV, M.M., prof., retsenzent; DOROKHOV, B.A., red.

[Land transportation of lumber] Sukhoputnyi transport lesa. [By] D.A.Popov i dr. Moskva, Goslesbumizdat, 1963. 863 p.

(MIRA 17:5)



32-7-38/49

AUTHORS:

Smol'yaninov, S. I., Popov, D. D.,

Zobvoyev, D. D.

TITLE:

An Apparatus for the Determination of the Aniline Sources

of Dark Mineral Oil Products (Pribor dlya opredeleniya

anilinovykh tochek temnykh nefteproduktov).

PERIODICAL:

Zavodskaya Laboratoriya, 1957, Vol. 23, Nr 7, pp. 873-873 (USSR)

ABSTRACT:

The apparatus consists of an electric pocket torch, a test tube with pressed-in bottom into which a bulb is fitted, the "wire mixer", and a thermometer. 3 ml aniline and a mineral oil product are introduced into the tube. The moment of complete dissolution is controlled by interior illumination. If the solution becomes dull, the filament of the bulb is invisible, By means of this apparatus it is possible to determine aniline sources. There

is 1 figure.

ASSOCIATION: Polytechnic Institute of Tomsk (Tomskiy politekhnicheskiy

institut).

AVAILABLE:

Library of Congress

Card 1/1

ANDRIANOV, A.P.; ZAYTSEV, M.M.; IDEL'CHIK, I.Ye.; POPOV, D.D.[deceased]; TEVEROVSKIY, Ye.N.; UZHOV, V.N.; CHUMAK, L.I.; SHAKHOV, G.F.; SHIROKOV, F.A.; TOMCHINA, Ye.I., red.; ZAZUL'SKAYA, V.F., tekhn. red.

[Battery cyclones; instructions for designing, assembling, and operating] Batareinye tsiklony; rukovodiashchie ukazaniia po proektirovaniiu, montazhu i ekspluatatsii. 2. izd. Moskva, Gos. nauchno-tekhn.izd-vo khim. lit-ry, 1959. 103 p. (MIRA 15:1)

1. Russia (1923- U.S.S.R.) Gosudarstvennyy komitet po khimii. (Separators (Machines))

ALABUSHEV, V.A., aspirant; POPOV, D.I.

Chemical weed control in millet fields. Zashch. rast. ot vred. i bol. 6 no.5:8-9 My '61. (MIRA 15:6)

1. Nauchno-issledovatel'skiy institut sel'skogo khozyaystva TSentral'noy chernozemnoy polosy imeni V.V. Dokuchayeva (for Alabushev). 2. Glavnyy agronom Kalacheyevskoy inspektsii po sel'skomu khozyaystvu (for Popov).

(Voronezh Province-Millet)
(Voronezh Province-Weed control)

KROPACHEV, N.G.; POPOV, D.I.

Efficient utilization of potentialities in open-hearth furnace plants. Stal' 21 no.9:846-849 S'61. (MIRA 14:9)

1. Kuznetskiy metallurgicheskiy kombinat i TSentral'nyy nauchno-issledovatel'skiy institut chernoy motallurgii. (Open-hearth furnaces—Accounting)

POPOV, D.I.; ZUBAREV, A.G.

Analysis of the technical and economic indices of the performance of continuous steel pouring installations. Stal! 23 no.8: 752-754 Ag '63. (MIRA 16:9) (Continuous casting) (Electrometallurgy)

MITYAYEV, N.I.; POPOV, D.I.; SKLOKIN, N.F.

Use of industrial capital assets in the iron and steel industry Stal' 25 no.2:163-168 F '65. (MIRA 18:3)

1. TSentral'nyy nauchno-issledovatel'skiy institut chernoy metallurgii imeni I.P. Bardina i Gosudarstvennyy komitet po chernoy i tsvetnoy metallurgii.

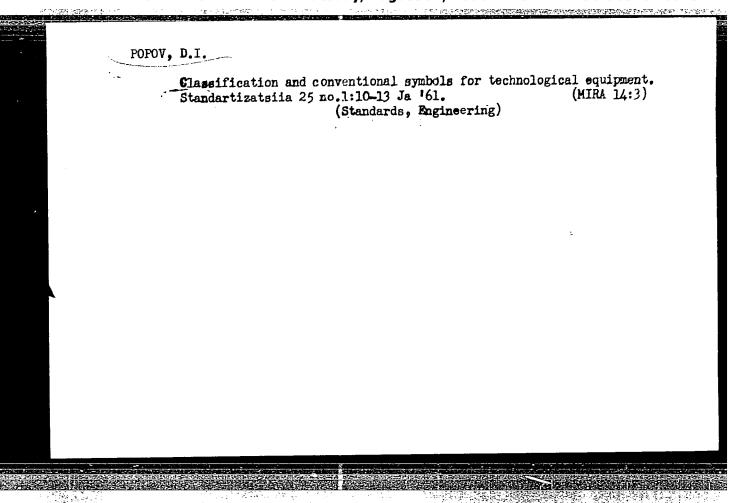
POPOV, D.I.

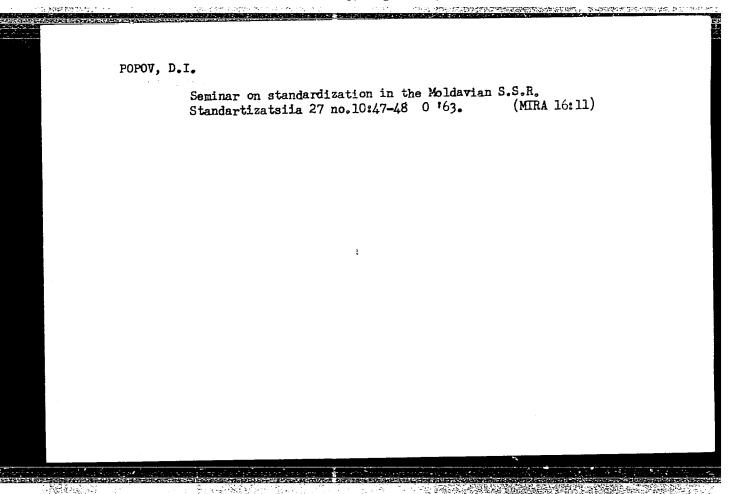
Performance of equipment for the continuous pouring of steel.

Metallurg 8 no.7:19-22 J1 \*63. (MIRA 16:8)

1. Gosudarstvennyy komitet po chernoy i tsvetnoy metallurgii pri Gosplane SSSR.

(Continuous casting—Equipment and supplies)





s/133/62/000/005/002/008 A054/A127

AUTHORS:

Popov, D.I., Candidate of Economic Sciences, and Chernenskiy, D.P.

TITLE:

At the Tsentral nyy nauchno-issledovatel skiy institut chernoy metallurgii im. I.P. Bardina (Central Scientific Research Institute of Ferrous Metallurgy im. I.P. Bardin) Generalizing the practice of using pressurized air in open-hearth production

PERIODICAL: Stal', no. 5, 1962, 418

In co-operation with the KMK and Siberian GIPROWEZ, tests were carried out on the feeding of pressurized air into the torch and the bath of 190-ton and 385-ton open-hearth furnaces. Fuel mixtures of coke and generator gas, and, in some cases, mixtures of coke and furnace gas were applied. Among the furnaces not operating on oxygen, those which were investigated yielded the best parameters. The furnaces tested are operated on low-manganese cast iron (with 0.35 - 0.70% Mn and 0.14 - 0.16% P); the liquid pig iron content of the charge amounts to 60 - 621; steel is top-poured from double-stopper, 200-ton, remote-controlled ladles in 6.0-- 7.6-ton ingots. Some high-alloy steels are poured via an intermittent apparatus. Air at a pressure of 1 - 3 atm is fed into the frontal part of the gas tank

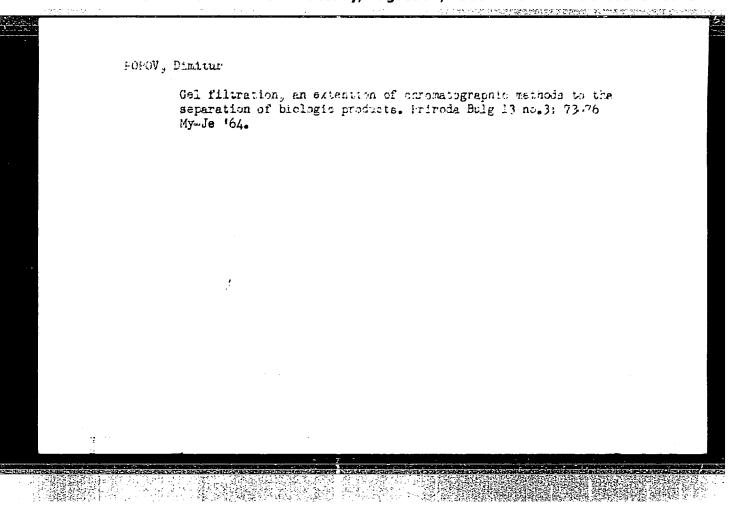
Card 1/2

POPOV, Dmitriy Ivanovich; YERONIN, P., redaktor; DANILINA, A., tekhnicheskiy redaktor.

[Finland; a political and economic sketch] Finliandiis; politiko-ekonomicheskii ocherk. Moskva, Gos.izd-vo polit.lit-ry, 1957.

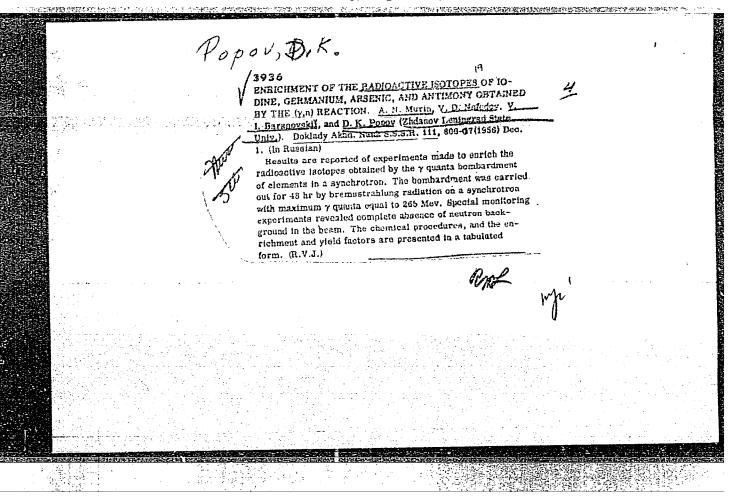
215 p. (MIRA 10:7)

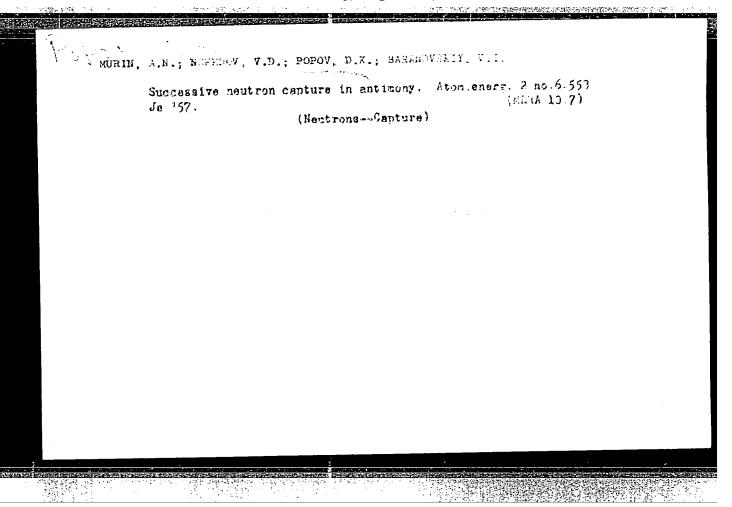
(Finland)



## "APPROVED FOR RELEASE: Tuesday, August 01, 2000

CIA-RDP86-00513R001342





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AUTHOR MURIN, A

MURIN, A.N., NEFEDOV, V.D., POPOV, D.K., BARANOVSKIY, V.I.

TITLE On the Successive Neutron Capture in Antimony.

(G posledovatel'nom neytronnom zakhvate v sur'me-Russian) Atomnaya Energina, 1957, Vol 2, Nr 6, pp 553-553 (U.S.S.R.)

PERIODICAL ABSTRACT

On the occasion of the irradiation of a sufficiently intensive neutron flux a twofold neutron capture according to the scheme

 $Sb^{123}$  (n )  $Sb^{124}$  (n )  $Sb^{125}$  (T = 2,7 Years)

is possible. By means of the B-decay Sb125 goes over into Te125m (T=58 Days) and this is the highest isomeric state of the stable Te125. From the samples of the antimony irradiated by neutrons deposited for about one year (for the purpose of a sufficient accumulation of Te125m in antimony) the authors separated the Te125m. Stable Te here served as a carrier. The metallic tellurium was separated from the antimony by reduction with tin-dichloride. An important activity of the Te125m was observed in the separated tellurium; it was identified after the half value period (57+4 days) from the accumulation in the antimony and from the curve of the absorption of the conversion electrons in aluminum. This curve, by the way, agrees with those given by G.Friedlander, M.Goldhaber, G.Scharff-Goldhaber, Phys.Rev., 74,981 (1948). Thus, the existence of a successive (double) capture, which develops according to the scheme given here, may be assumed as an established fact.

Tests were made to evaluate the cross section of the activation of

Card 1/2

POPOV DIK

AUTHORS: Murin, A. N.; Nefedov, V. D.; Baranovskiy; and Popov, D. K.

(Leningrad)

TITLE: Chemical Effects of the Gamma, n Reaction (Khimisheskiye effekty

reaktsii)

PERIODICAL: Uspekhi Khimii, 1957, Vol. 26, No. 2, pp. 164-175 (U.S.S.R.)

ABSTRACT: During the exposure of various elements by high energy gamma-rays

an interaction occurs between the nuclei of the atoms of these elements and the gamma-quanta, accompanied by the emission of one or several nuclear particles. Such reactions are termed photonuclear and have very small cross sections (of the order 0.1-0.001 -24 cm<sup>2</sup>).

The gamma, n reaction is the best studied and generally has the largest section compared to all other photomuclear reactions. Radioactive isotopes with a shortage of neutrons form from this

reaction, disintegrating for the most part by way of  $\beta$  <sup>±</sup> disintegration or K-capture; many of these isotopes may be used as radioactive indicators. Study of photomuclear reactions began in the mid-1930s, and the intensive and thorough investigation

of photodisintegration is now being conducted.

Card 1/5

Chemical Effects of the Gamma, n Reaction

A great step ahead was the application (in studies on the photonuclear reactions) of gamma emission originating during the impingement of Li and B protons according to the reactions:

The invention of electron accelerators (betratrons, synchrotrons) made possible the derivation of gamma emission of any energy up to 10° eV. More than 100 radioactive isotopes have been obtained from the gamma, n reaction but only 12 studies have been published since 1950 on the chemical effects associated with photomuclear reactions.

The author next presents general data on photomuclear reactions, introducing the concept that  $E_{\rm thresh}$  ( $E_{\rm nop}$ ) (Threshhold of photomuclear reaction) in order to separate the neutron from the nucleus, must be somewhat greater than  $Q_{\rm n}$  (the bond energy of the neutron). He develops an equation for the energy of emission of the atom (EM) in which M = atomic mass,  $E_{\gamma}$  = energy of the gamma quantum, m = neutron mass, Q = energy of nuclear reaction, c = speed

Card 2/5

Chemical Effects of the Gamma, n Reaction

germanium, iodine, antimony and arsenic. Table 3 shows (based partly on data from a study of R. B. Duffield and A. Calvin [76] the holding for the gamma, n reaction and the n, gamma reaction in f, in which such irradiating preparations as crystals of salicylaldehydeortho-phenylene diimine and a solution of same in pyridine are applied. It follows from Table 3 that, depending on irradiation conditions, a considerable part of radioactive atoms is held in the form of the original compound. F. S. Rowland and W. E. Libby (81) studied the distribution of radioactive carbon originating from a reaction of f cl (f, n) Cl between CO and CO<sub>2</sub> during irradiation of liquid and solid carbon dioxide, solid NaHCO<sub>3</sub> and water solutions of NaHCO<sub>3</sub> and Na<sub>2</sub>CO<sub>3</sub>.

Results of their tests are shown in Table I, which shows that the irradiation of solid samples leads to the condition that Cll is evenly distributed between carbon monoxide and carbon dioxide. However, the Rowland-Libby results do not agree with those of Z. J. Sharman and K. J. McCallum (82) which are shown in Table 5 based on their study of the radiocarbon distribution obtained in the irradiation by gamma-rays of sodium carbonate. W. J. Edwards and K. J. McCallum (83) studied the chemical composition of Cll originating with the irradiation of sodium bicarbonate and calcium bicarbonate by gamma-rays with a maximum energy equivalent to 23 MeV. The samples were irradiated for about 10 minutes under an intensity of gamma rays in the range of 1000-2000 roentgens/minute; results are portrayed in Table 6.

Card 4/5

Chemical Effects of the Gamma, n Reaction

of light, and 0 = the angle between the trajectories of the emitted neutron and the incident photon. The energy of muclei of emission obtained in a gamma, n reaction is great and exceeds by far the energy of chemical bond of the atom in a molecule of any compound. The interaction of heavy high energy particles with surrounding media (solution, crystals) and the concomitant chemical changes are of great practical and scientific interest. The few studies made on this subject can be classified under two groups; l. studies on enrichment of radioactive isotopes and 2. studies on the chemical state (of atoms) originating from the gamma, n reaction. (The author gives much detail under these groups; see explanation of tables 2-6 below, and contributions of personalities).

Table 1 presents threshholds of reaction for various nuclei and has 9 columns giving such information as atomic mass and number, product of reaction, half-life period. Ethresh etc. Table 2 lists elements with their corresponding compounds, reactions, methods of enrichment, output in %, and enrichment factors. The elements listed are

Card 3/5

POPOV, D. K., Cand of Chem Sci — (diss) "The Reaction of Scillaridin-Chalmers in Certain Metalloorganic and Oxidizing Compounds, Having Retarding Radiation," Leningrad, 1959, 10 pp (Leningrad State Univ im A. A. Zhdanov) (KL, 4-60, 115)

5(4) AUTHOR:

Popov, D. K.

SOV/76-33-2-26/45

TITLE:

The Szillard-Chalmers Effection the y-quantum Irradiation of

Chromates and Dichromates (Effekt Steillarda-Chalmersa v khromatakh i bikhromatakh pri obluchenii ikh y-kvantami)

PERIODICAL:

Zhurnal fizicheskoy khimii, 1959, Vol 33, Nr 2,

pp 405 - 410 (USSR)

ABSTRACT:

The chemical effects of the reaction  $(n,\gamma)$  in chromates and dichromates has been investigated in a number of papers (Refs 1-3). It was assumed that intermediary radicals of the types  $\text{Cr0}_3^2$ ,  $\text{Cr0}_2^{2+}$ ,  $\text{Cr0}_4^{4+}$ , and  $\text{Cr}_9^{6+}$  formed. The

low specific activity of chromium preparations which are obtained by the reaction  ${\rm Cr}^{50}(\gamma,n){\rm Cr}^{49}$  does not allow any complete comparison with the chemical effects of the reaction  ${\rm Cr}^{50}(n,\gamma){\rm Cr}^{51}$ , and it is limited to only strongly concentrated solutions. It was possible under these conditions to carry out only experiments involving a retention in the dependence upon the time between dissolution of the irradiated preparations and the separation of the radioactive chromium with

Card 1/3

The Szillard-Chalmers Effect in the  $\gamma-\mathrm{Quantum}$  Irradiation of Chromates and Dichromates

sov/76-33-2-26/45

the non-isotopic carrier, and to arrive at an explanation for the possibility of concentrating the radioactive chromium which forms from chromates and dichromates in the reaction  $(\gamma,n)$ . The preparations were irradiated with a maximum energy of the  $\gamma$ -quantum of 20 megavolts using the betatron of the Institut metallurgi AM SSER (Institute for Metallurgy AS USSR). The irradiation lasted 40 minutes, i.e. corresponding to a half life period of  $Cr^{49}$  according to the reaction  $Cr^{50}(\gamma,n)Cr^{49}$  (Refs 5,6). The concentration of the Cr49 was carried out by a precipitation with amaonia in the presence of iron, whereby two variations were worked out (Table 1). The concentration factor was greater than 104 in all preparations. The activity measurements (Fig. 1) were carried out with a cylindrical  $\beta$ -counter. The size of the retention for colid irradiated prepar tions depends upon the time interval between the dissolution of the malt and the separation of the Cr49 in the iron hydrate (Refs 2-4). In the irradiation of aqueous solutions the increase is zero. Since a separation of the  ${\rm Cr}^{4+}$  and  ${\rm Cr}^{5+}$  out of the solutions failed it is assumed that after the dissolution of the

card 2/3

The Szillard-Chalmers Effection the j-quantum Irradiction of Chromates and Dichromates

507/76-33-2-26/45

irradiated preparations the non-stable forms of the chromium are transformed to Gr3+ and Gr6+. Finally, the following workers are thanked: the researchers of the FIAN SSSR (FIAN USSR), Professor V. I. Gol'danskiy and the senior (FIAN USSR) L. Ye. Lazareva; Yu. A. Kondratenko, Research Analyst researcher in the Institut metallurgii AN SSSR (Institute for Metallurgy AS UGSR); V. I. Baranovskiy, researcher of the kafedra radiokhimii LOU (Chair for Radiochemistry LOU); and Professor A. H. Murin. There are 4 figures, 4 tables, and 6 references, 1 of which is Soviet.

ASSOCIATION:

Leningradskiy gosudarstvennyy universitet im. A. A. Zhdanova

(Leningrad State University ineal a. A. Shlanov)

SUBMITTED:

June 7, 1957

Card 3/3

24817 \$/081/61/000/011/009/040 B105/B203

AUTHORS:

Moskal'kova, E. A., Popov, D. K., Tolmachev, Yu. M.

TITLE:

Separation and purification of radioactive zirconium

radioisotopes

PERIODICAL:

Referativnyy zhurnal, Khimiya, no. 11, 1961. 49. abstract 116349 (Radiokhim. analiz produktov deleniya. M-L., AN SSSR,

1960, 58-62)

TEXT: IaF<sub>3</sub> is twice precipitated from the solution to be analyzed which contains the carrier Zr and the 44% HF (3ml). The precipitate is separated, and the BaZrF<sub>6</sub> is precipitated from the solution by means of saturated Ba(NO<sub>3</sub>)<sub>2</sub> solution. The precipitate is centrifuged, washed with 0.5% HF and water, and dissolved by successive addition of 5 ml of 5%H<sub>3</sub>BO<sub>3</sub> solution, 10 ml of water, and 3 ml of concentrated HNO<sub>3</sub>. BaSO<sub>4</sub> is precipitated by means of 5% H<sub>2</sub>SO<sub>4</sub> from the solution heated to boiling.

Card 1/3

24817

S/081/61/000/011/009/040 B105/B203

Separation and purification of ...

The solution with the precipitate is heated for 10 min, then cooled down, and the BaSO<sub>4</sub> precipitate is separated out and washed out by means of 0.1% H<sub>2</sub>SO<sub>4</sub>. The Zr(OH)<sub>4</sub> is precipitated from the filtrate by a 30% KOH solution. The precipitate is centrifuged, washed by means of 1% KNO<sub>3</sub> solution, and dissolved in a minimum quantity of concentrated HCl. The zr(OH)<sub>4</sub> is precipitated once more, and after its dissolution in concentrated HCl, the solution is illuted to 1 N concentration of HCl. The phenyl arsonate of Zr (I) is precipitated out of the solution obtained by adding 5 ml of the 10% solution of phenyl arsonic acid to 6 N HCl. The sediment (I) is separated out, washed out by means of 1 N HCl (containing 0.1% phenyl arsonic acid), and treated with 5 ml of 10% NaOH solution. The phenyl arsonic acid), and treated with 5 ml of 10% NaOH solution. The Zr(OH)<sub>4</sub> precipitated is centrifuged, washed by means of 0.5% NaOH solution, dissolved in concentrated HCl, and the separation of (I) and its conversion Zr(OH)<sub>4</sub> are repeated. The latter is dissolved in 6 N HNO<sub>3</sub> by adding 3 ml of 44% HF in 5 mg La. The LaF<sub>3</sub> precipitated is separated out and washed

Card 2/3

L 16615-63

\$/075/63/018/004/004/015

AUTHOR:

Popov, D. K. and Mikhaylova, A. I.

TITLE:

The direct determination of calcium in plants, soils and milk

with use of a flame photometer

PERIODICAL:

Zhurnal analiticheskoy khimii, v. 18, no. 4, April 1963, 440-443

The authors demonstrate experimentally that there is no lessening of the intensity of radiation from calcium on account of quenchers (aluminum, sulfate and phosphate ions), provided 8-hydroxyquinoline is present. On this basis they suggest a method for the direct determination of calcium in soils, milk and plants, the removal of quenchers being unnecessary. There are 2 figures and 2 tables. The most important English-language reference reads as follows: Debras-Guedon, J., Voinovitch, J., Compt. rend. Acad. Sci., 248, 3421 (1959).

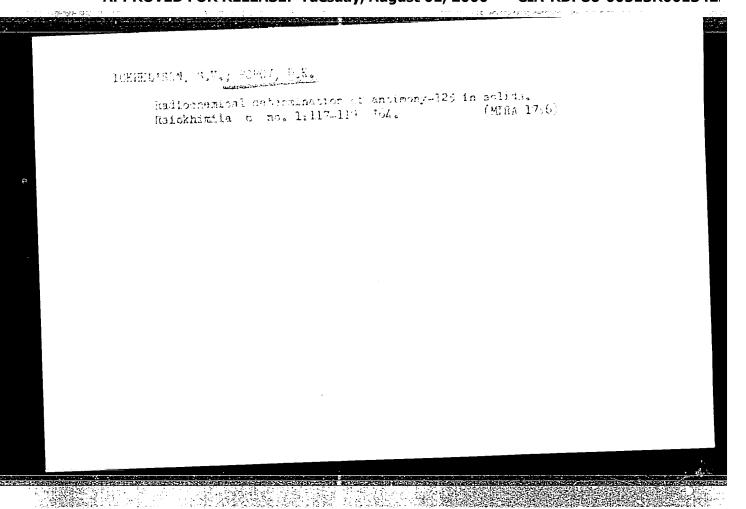
ASSOCIATION: Leningradskiy nauchno-issledovatel'skiy insitut radiatsionnoy gigeny (Leningrad Scientific Research Institute for Radiation

Hygiene)

SUBMITTED

July 21, 1962

Card 1/3



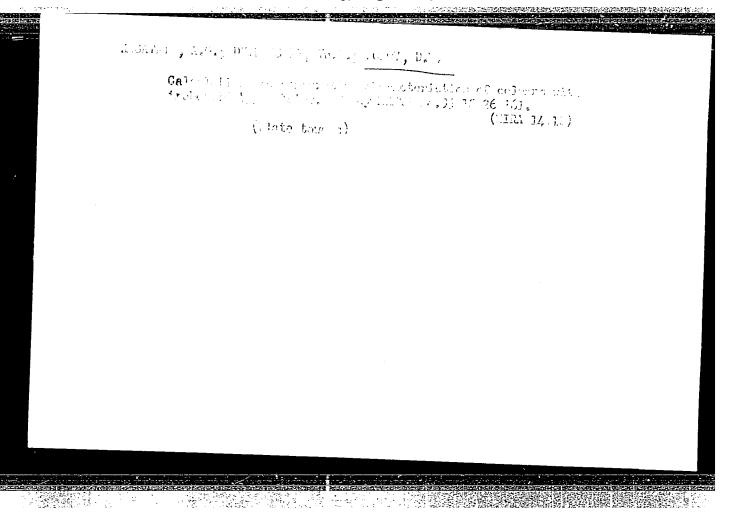
IOKHKL'SON, S.V.; POPOV, D.K.

Sb<sup>125</sup> content in the topsoil and in plants. Atom. energ. 16
no.2:155-159 F '64.

POFOV, Dmitriy Mikhaylovich; DOBRYY, Iosif Matveyevich; AMENTOV, B.K., otv. red.; SIDOROVA, T.S., red.; MARKOCH, K.G., tekhn. red.

[Plans for the dispatching and regulation of mail flows] Plany napravleniia i regulirovanie pochtovykh potokov. Moskva, Gos. izd-vo lit-ry po voprosam sviazi i radio, 1961. 80 p. (MIRA 15:1)

(Postal service-Transportation)



KASATKIN, A.G.; POPOV, D.M.; DYTNERSKIY, Yu.I.

Mass transfer in turbogrid-type bubble plates. Khim.prom. no.2:123-130 F 162. (MIRA 15:2)

1. Moskovskiy Ordena Lenina khimiko-tekhnologicheskiy institut im. D.I. Mendeleyeva.

(Plate towers) (Mass transfer)

5 (4), 5 (2) AUTHORS:

Kasatkin, A. G., Doctor of Technical Sciences, Professor, Popov. D. M.,

S/064/59/000/07/021/035 B005/B001

Aksel'rod, Yu. V.

TITLE:

Heat Transfer Through the Walls of the Spiral Cooler Under the

PERIODICAL:

Khimicheskaya promyshlennost', 1959, Nr 7, pp 622 - 624 (USSR)

ABSTRACT:

The authors of this paper investigated the heat transfer on absorption of sulfur trioxide in concentrated sulfuric acid (98% H<sub>2</sub>SO<sub>4</sub>) for the preparation of standard oleum and on absorption of sulfur dioxide in a solution of ammonium sulfite-bisulfite. In both cases, cooling spirals were fixed to the sieve plates of the absorption column. Table 1 shows the characteristics of the apparatuses used and the working conditions on investigation of the absorption of SO<sub>3</sub> and SO<sub>2</sub>. The temperature of the cooling water was measured when entering and leaving the cooling spiral; moreover, the consumption of water (kg per hour) and the temperature of the bubbling layer at the plate were measured. This temperature was considered

Card 1/3

Heat Transfer Through the Walls of the Spiral Cooler S/064/59/000/07/021/035 Under the Conditions of Bubbling S/064/59/000/07/021/035

to be constant at all points which corresponds to a complete blending of the layer at the bubble plate. The heat transfer coefficient K was computed from these values. The coefficients of the heat transfer from the cooler wall to the cooling water (\$\pi\_2\$) and of the heat transfer from the bubbling layer to the wall of the cooling spiral (\$\pi\_1\$) were also computed. The respective equations are given in the paper. Table 2 shows the results of the experiments and computations. It appears that the values of K are very high and reach 950 kcal/m² hours. C. Since the heat transfer through the cooler walls under the conditions of bubbling is considerable, the same apparatus can also be used for the cooling of hot liquids. In connection with it, the hot liquid is conducted through the cooler; the bubbling layer is cold. The evaluation of the obtained results showed that \$\pi\_2\$ increases from 1950 to 6500 kcal/m² hours oc at increasing velocity of flow of the cooling water. \$\pi\_1\$ remained constant in the investigated range of bubbling gas velocities 0.85 - 1.35 m/sec) and was 1200 kcal/m² hours oc on an average. This means that the total heat {\pi\_1\$ hours oc on an average.}

Card 2/3

Heat Transfer Through the Walls of the Spiral Cooler Under the Conditions of Bubbling

S/064/59/000/07/021/035 B005/B001

constant and independent of the gas velocity when  $\alpha_2$  is given. Table 3 shows a comparison of the value for  $\alpha_1$  obtained by the authors with the results obtained by other authors (M. E. Aerov and others, Ref 3, K. N. Shabalin and I. G. Blyakher, Ref 2, M. Ye. Pozin and others, Ref 1). The comparison proves the above assumption that  $\alpha_1$  is independent of the velocity of flow of the gas in the apparatus. The values for  $\alpha_1$  are in good agreement except for the data of M. Ye. Pozin and coworkers. It may be concluded that in plate apparatuses the maximum turbulence for the respective apparatus is always realized in the entire load range because  $\alpha_1$  depends neither on the turbulence nor on the physical properties of the bubbling layer if the cooling spirals are completely submerged in the bubbling layer. There are 3 tables and 4 Soviet references.

Card 3/3

POPOV, D.M.

Calculation of the composition - temperature equilibrium dependence for liquid ideal systems. Zhur.prikl.khim. 37 no.7:1523-1530 J1 164. (MIRA 18:4)

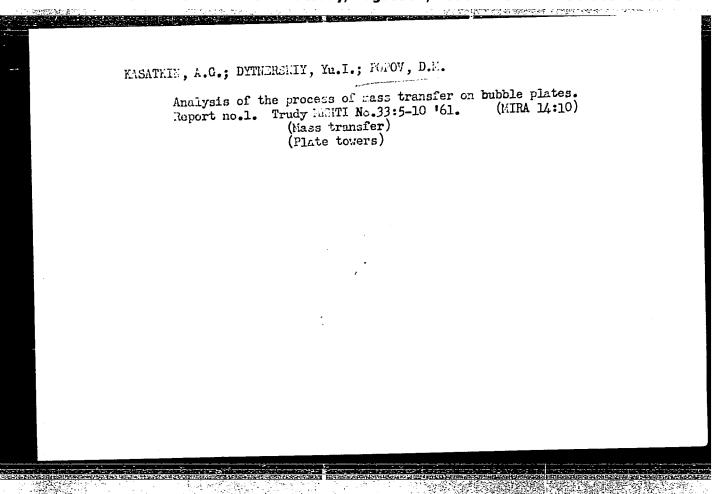
1. Gosudarstvennyy nauchno-issledowatel skiy i proyektnyy institut azotnoy promyshlennosti i produktov organicheskogo sinteza.

POPOV, D. M., Cand. Tech. Sci. (diss) "Investigation of Hydraulics and Mass-exchange on Bubbling Grates of Descending Type," Moscow, 1961, 19 pp. (Moscow Inst. Chem. Machinebuilding) 200 copies (KL Supp 12-61, 272).

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013423

Hydraulic laws governing the processes taking place on turbogrid-type babblo lates. Khim. prom. no.7:422-491 Jl '61. (Flate towers)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013423



KASATKIN, A.G.; DYTHERSKIY, Yu.I.; FCLOV, D. ...

Analysis of the process of mass transfer on bubble plates.

Report No.2. Trudy MKHTU No.33:11-17 '61. (MIRA 14:10)

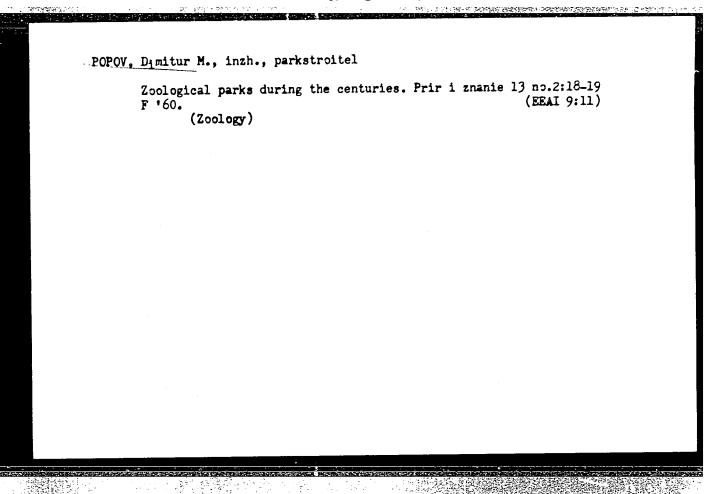
(Mass transfer)

(Plate towers)

KUZ'MINYKH, I.N., [deceased] doktor tekhn.nauk, prof. POPOV, D.M.; GORPACHEV, B.I.

Bubble absorption of sulfor dioxide resulting in the production of concentrated solution of ammonium bisulfite. Khim.prcn. 2:128-132 My '60. (MIRA 13:7)

Moskovskiy khimiko-tekhnologicheskiy institut imeni
 D.I. Mendeleyeva i ChKhZ imeni M.I. Mendeleyeva.
 (Sulfur dioxide) (Sodium sulfite)



- 1. POPOV, D.M.
- 2. USSR (600)
- 4. Grafting
- 7. Slip grafting, Sad i og. no. 3, 1953.

9. Monthly List of Russian Accessions, Library of Congress, APRIL 1953, Unclassified.

POPOV, D.N.; PLOKHIKH, B.A.

Mechanized painting and glazing of facing tiles on conveyers. suggested by D.N.Popov, B.A.Plokhikh. Rats.i izobr.predl.v stroi. no.11:75-76 '59. (MIRA 13:3)

1. Rabotniki plitochnogo zavoda, stantsiya Losevo, Khar'kovskogo sovnarkhoza. (Losevo--Tiles)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013423

## "APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001342."

POPOW, D. N. — "Automatic Velocity Regulation of Hydroturbined Using Remote Sensing Elements." Man Higher Education USDS. Moscow Order of Lenic and Order of Labor Red Banner Higher Technical School ineal Pauman. "Oscow, 1956. (Dissertation for the Regree of Candidate in Technical Sciences)

SOURCE Knizhnaya Letopis' Mo 6 1956

POPOV. D.N., kandidat tekhnicheskikh nuak.

Selection of the parameters of isodrome speed-control governors for hydraulic turbines. Trudy VIGM no.19:87-127 '56.

(MLRA 10:2)

(Hydraulic turbines)

POPOV, D.N.

122-2-7/33

Popov, D.N., Candidate of Technical Sciences. AUTHOR:

On the Resistance Forces Arising in Spool Valve Control TITLE: Mechanisms (O silakh soprotivleniya, voznikayushchikh v

zolotnikovykh ustroystvakh)

Vestnik Mashinostroyeniya, 1958, No.2, pp. 26-28 (USSR) PERIODICAL:

The force resisting the displacement of a spool valve after standstill greatly exceeds the hydrodynamic resistance. Breakdown of the oil film, accompanied by the appearance of dry friction and the clogging of narrow clearances as a result of molecular changes in the oil have been thought responsible for the excess force. An experimental set-up using a control valve of the K3 speed governor for hydraulic turbines is described as investigated on a test rig at the All-Union Scientific Research Institute for Hydraulic Machinery (VIGM). The spool was fixed inside the moving sleeve so that the pressure distribution in the annular ports around the sleeve was held at a level corresponding to the research of the relation of the relat level corresponding to the normal operation of the valve. Appropriate ports were connected through throttle valves and the port pressures were measured individually. The displacement force was measured by a calibrated spring. Several sleeves were tested made of different materials and having surfaces cardl/2 either smooth, or provided with threaded or annular grooves.

122-2-7/33

On the Resistance Forces Arising in Spool Valve Control Mechanisms

Rest periods were varied. The resistance force was found to stabilise after 1.5 hours. It is shown to depend essentially on the surface area of the land exposed to pressure, but not on the width of the clearance. If a force too low for displacement is applied and subsequently the oil pressure is reduced, the sleeve will move only after several minutes. It is concluded that the excess force is not due to clogging of the clearance by solid particles or to an eccentric pressure distribution, but to a change of the molecular structure of the oil in the clearance. Apart from retating or oscillating motion, the greatest reduction in the land area is considered the most effective remedy.

There are 2 figures, 1 table and 4 Russian references.

AVAILABLE: Library of Congress

Card 2/2

8(6), 14(6)

SOY/112-59-5-8715

Translation from: Referativnyy zhurnal. Elektrotekhnika, 1959, Nr 5, p 44 (USSR)

AUTHOR: Popov, D. N.

TITLE: Influence of the Servomotor Characteristic Upon Speed-Control Conditions of a Hydro Turbine

PERIODICAL: Tr. Vses. n.-i. in-ta gidromashinostr., 1958, Nr 21, pp 110-130

ABSTRACT: Limits are determined between which the time constant of the servomotor can be neglected in calculating fundamental parameters of the regulator.
Analytical expressions are developed that determine the stability range of a
regulation system. A method for determining the curve of speed regulation
with an allowance for the nonlinear servomotor characteristic is presented.
Bibliography: 6 items.

A.A.B.

Card 1/1

## "APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001342

Control of speed and acceleration of hydraulic turbines. Trudy
(MIRA 12:8)

YIGM no.24:150-178 '59.

(Hydraulic turbines) (Automatic control)

## PHASE I BOOK EXPLOITATION

SOV / 6071

Nosov, Yuriy Andreyevich, Dmitriy Nikolayevich Popov, and Sergey Nikolayevich Rozhdestvenskiy

Nekotoryye voprosy rascheta i konstruirovaniya aviatsionnykh gidravlicheskikh sistem (Some Problems in the Design and Construction of Aircraft Hydraulic Systems). Moscow, Oborongiz, 1962. 231 p. Errata slip inserted. 3500 copies printed.

Ed. (Title page): S. N. Rozhdestvenskiy; Ed.: I. L. Yanovskiy, Engineer; Ed. of Publishing House: A. A. Khrustaleva; Tech. Ed.: L. A. Garnukhina; Managing Ed.: S. D. Krasil'nikov, Engineer.

PURPOSE: The book is intended for aircraft designers specializing in hydraulics. It can also be used by students of machine-building institutes.

COVERAGE: The book, based on non-Soviet sources, deals with the calculation

Card 1/3

Jome Problems in the Design (Cont.)

SOV/6071

and design of aircraft hydraulics. The dynamics and hydraulics of servodrives and the effect of high temperatures on their operation and sealing, are considered. No personalities are mentioned. There are 9 references: 1 Soviet (a translation from English) and 8 English.

## TABLE OF CONTENTS [Abridged]:

Card 2/3

Foreword	3
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Ch. I. Fluids Used in Aircraft Hydraulic Systems	7
Ch. II. Problems of Hydraulics	27
Ch. III. Hydraulic Systems	61

5/089/62/012/005/013/014 B102/B104

21.1000

ンで、スズッ AUTHORS: Gruzinova, T. A., Ionaytis, R. R., Kamenshchikov, F. T.,

Popov, D. X.

TITLE:

Calculation of transient states in a hydraulic loop contain-

ing a falling body

PERIODICAL: Atomnaya energiya, v. 12, no. 5, 1962, 421-423

TEXT: Transient-state calculations were carried out for a hydraulic loop (Fig. 1) with one vertical tube (1) in which a solid body 2(h=12m, d=0.0506m) is allowed to fall; the elasticity of the liquid and the pipe walls is ignored. The purpose of the calculations was to see if the velocity v of the falling body could be increased. A relation between the liquid pressure and flow rate in the system, on the one hand, and v or the other, was found. The liquid in the loop flows at w=0.25 m/sec before the body starts falling in the vertical tube. The motion of the liquid is described by

Card 1/3

S/089/62/012/005/013/014 B102/B104

Calculation of transient states in ...

$$\frac{P_{0(1)-V}}{\gamma} = \alpha_{0(1)-V} \omega^2 + \beta_{0(1)-V} \frac{d\omega}{d\tau} \pm \pm \alpha_{ut} (\omega - v)^2 \mp \beta_{ut} \frac{dv}{d\tau} , \qquad (1),$$

the motion of the body by

Card 2/3

$$\frac{dv}{d\tau} = a + b \left( \omega - v \right)^2 + c \frac{d\omega}{d\tau} , \qquad (3).$$

p is the pressure, f the specific weight of the liquid, the  $\alpha$  and  $\beta$  are numerically given coefficients, f the duration of the fall, the double signs stand for  $w \ge v$ ; a, b, and c are also numerically given. The equations are numerically solved when a) an accumulator (providing equations are numerically solved when a) as a the loop entry and b) and discharge and pressure of the liquid) is at the loop entry and b) and accumulator is at the top of the vertical tube. The results are graphically shown:  $p_0/f = f(\cdot)$  for (a) and w, v = f(f) for (b). a) At 2 water pressure of 20-30 kg/cm<sup>2</sup> the body travels along a path of f in f and f in f

S/089/62/012/005/013/014 States in ... S/089/62/012/005/013/014

0.87 sec (path 3.5 m). Conclusions: 1) in the section I-I of a loop with constant pressure the body falls continuously; 2) with constant pressure at the entry of the vertical tube the body falls 3.5 m in 0.9 - 1.4 sec; 5) if the accumulator is placed at the vertical tube it is more effective than if it is at the loop entry. These calculations can be valuable for analyses of special hydraulic systems, such as in the safety shields of atomic power plants. There are 3 figures.

SUBLITTED: November 29, 1961

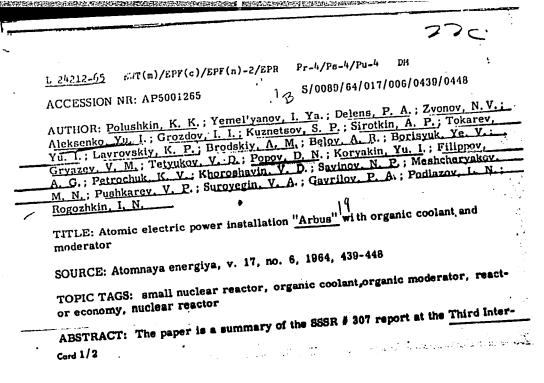
Card 3/3

TARKO, L.M.; POPOV, D.N., kand. tekhn. nauk, retsenzent; GORBOV, P.S., inzh., red.; TUCHKOVA, L.K., red.izd-va; UVAROVA, A.F., tekhn. red.

[Wave processes in the pipings of hydraulic mechanisms] Volnovye protsessy v truboprovodakh gidromekhanizmov. Moskva, Mashgiz, 1963. 181 p. (MIRA 16:10) (Oil hydraulic machinery—Hydrodynamics)

POLUSHKIN, K.K.; YEMEL YANOV, I.Ya.; DELENS, P.A.; ZVONOV, N.V.; ALEKSENKO, Yu.I.; GROZDOV, I.I.; KUZNETSOV, S.P.; SIROTKIN, A.P.; TOKAREV, Yu.I.; LAVROVSKIY, K.P.; BRODSKIY, A.M.; BELOV, A.R.; BORISYUK, Ye.V.; GRYAZEV, V.D.; POPOV, D.N.; KORYAKIN, Yu.I.; FILIPPOV, A.G.; PETROCHUK, K.V.; KHOROSHAVIN, V.D.; SAVINOV, N.P.; MESHCHERYAKOV, M.N.; PUSHKAREV, V.P.; SUROYEGIN, V.A.; GAVRILOV, P.A.; PODLAZOV, L.N.; ROGOZHKIN, I.N.; TETYUKOV, V.D.

"Arbus" atomic power plant with organic heat transfer agent and moderator. Atom. energ. 17 no.6:439 D '64 (MIRA 18:1)



L 24212-65

ACCESSION NR: AP5001265

national Conference on Peaceful Uses of Atomic Energy, 1964. It describes an installation of a reactor in which organic liquid serves as the coolant, and as the moderator. The low-power reactors of about 5 Mw are expected to be economical in the remote regions where the usual energy sources are not available. A regeneration system is described for the coolant which removes the products of radiolysis. Orig. art. has: 7 figures

ASSOCIATION: None

SUBMITTED: 00

ENCL: 00

SUB CODE: NP

NR REF SOV: 000

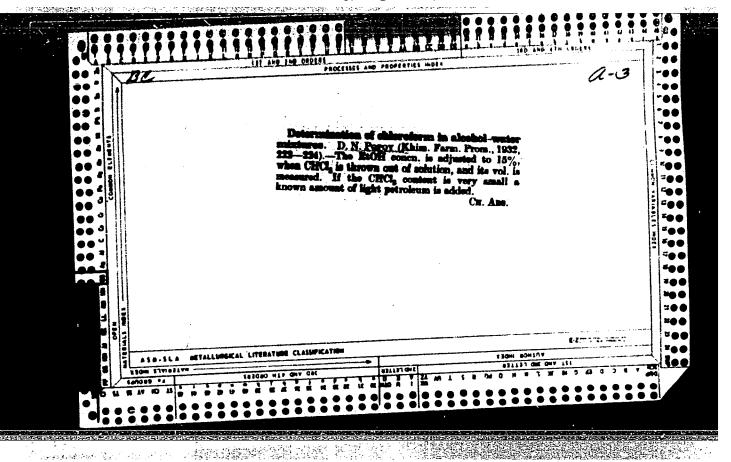
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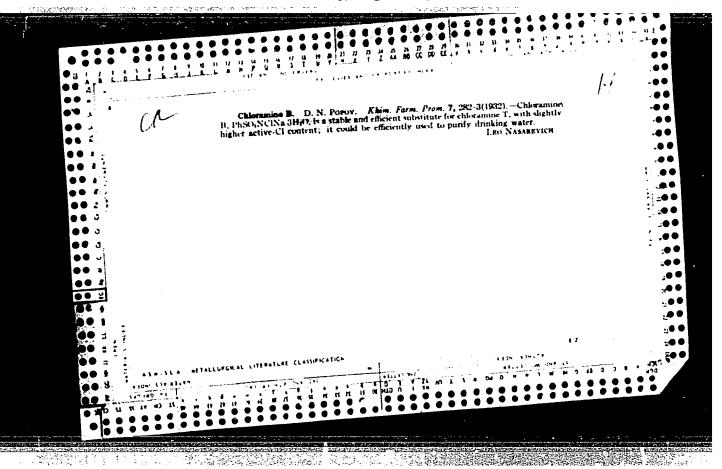
Card 2/2

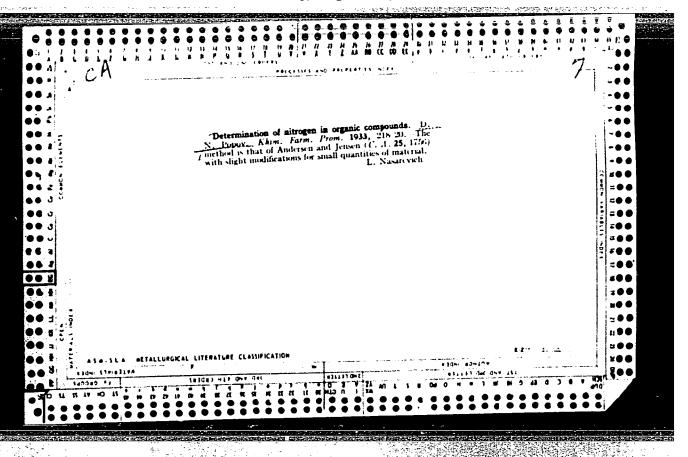
BUGAKOV, P.I.; CRUZINOVA, T.A.; IONAYTIS, R.R.; KAMEN'SHCHIKCV, F.T.; POPOV, D.N.

[Study of a hydraulic system with a body moving within it] Issledovanie gidravlicheskoi sistemy s dvizhushchimsia v noi telom. [n.p.] Gos.kom-t po ispol'zovaniiu atomnoi energii, 1960. 42 p. (MIRA 17:1) (Hydraulics)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013423







INDENHAUM, G.V.; POPOV, D.N.

Substructure of spherical single crystals of aluminum depending on crystallization conditions. Fiz. met. i metalloved. 14 no.2:205-211 (MIRA 15:12)

1. Kransnoyarskiy institut tsventnykh metallov imeni Kalinina.
(Aluminum crystals) (X-ray crystallography)

S/020/62/143/002/011/022 B104/B102

AUTHORS: Indenbaum, G. V., Novikov, I. I., and Popov, D. N.

TITLE: Channels and macroscopic etch patterns in pure monocrystalline

aluminum

PERIODICAL: Akademiya nauk SSSR. Doklady, v. 143, no. 2, 1962, 316 - 318

TEXT: The Bridgman technique was used to grow spherical aluminum single crystals in a device that allowed the cooling rate and the axial temperature gradient of the growing crystal to be regulated. At high cooling rate and small axial temperature gradient there is a large subcooling zone in front of the crystallization zone, i. e., dendritic structures may develop in front of the crystallization zone. Crystals grown in this way exhibit no external defects, but their density is insufficient. If such single crystals are etched for 20 to 50 min in an acid mixture of HNO<sub>3</sub> (47 parts), HCl (50 parts), and HF (3 parts), large etch patterns will occur: holes of regular shape, which are bounded by faces with minimum rate of dissolution: \( 100 \), \( 110 \), or \( 111 \). The

Card 1/2

s/020/62/143/002/011/022 B104/B102

Channels and macroscopic...

pouring channel is surrounded by 6 - 10 mm deep perpendicular, square channels with bright walls. The metallographic examination of a cut crystal has shown that both macroscopic etch patterns and channels develop along the axes of dendrites. V. B. Zernov is thanked for making available the experimental arrangement and the mold for growing the single crystals. A. A. Bochvar is mentioned. There are 4 figures and 3 references: 1 Soviet and 2 non-Soviet. The two references to Englishlanguage publications read as follows: P. Lacombe, L. Beaujard, J. Inst. Metals, 74, 1 (1948); M. Jamamoto, J. Japan Inst. Metals, 21, 85 (1957).

ASSOCIATION: Krasnoyarskiy institut tsvetnykh metallov im. M. I. Kalinina

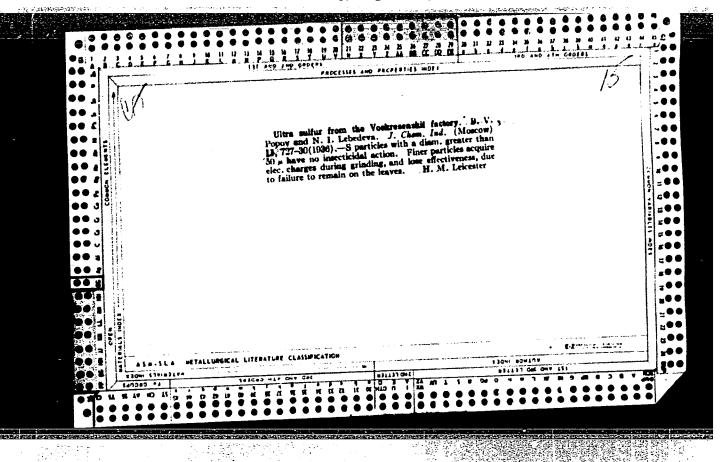
(Krasnoyarsk Institute of Nonferrous Metals imeni M. I.

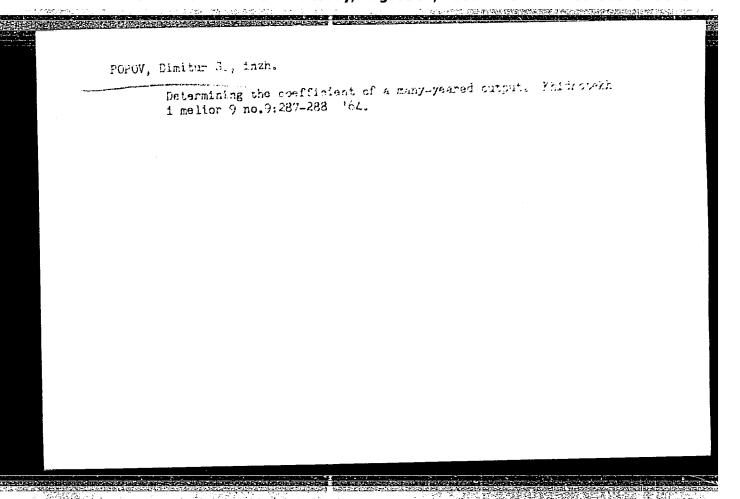
Kalinin)

October 16, 1961, by A. A. Bochvar, Academician PRESENTED:

October 4, 1961 SUBMITTED:

Card 2/2





Importance of enzyme tests in the diagnosis of liver diseases in children. Vop. okh. mat. i det. 6 no.9:43-48 S '61. (MIRA: 14:9)

l. Iz kafedry detskikh bolezney (nachal'nik - deystvitel'nyy chlen AMN SSSR zasluzhennyy deyatel' nauki prof. M.S.Maslov [deceased]) Voyenno-meditsinskoy ordena Lenina akademii imeni S.M.Kirova. (LIVER--DISEASES) (ENZYMES)

SERAFIMOVICH, Viktor Stepanovich, kand. tekhn. nauk; POPOV, D.V.,
inzh., retsenzent; ERAYLOVSKIY, N.G., inzh., red.; KHITROVA,I.A., tekhn
red.
[Automatic regulators of the brake gear of railroad cars and
locomotives] Avtomaticheskie reguliatory tormoznoi rychazimoi
peredachi vagonov i lokomotivov. Moskva, Transzheldorizdat,
1962. 96 p.

(MIRA 15:6)

(Railroads—Brakes) (Automatic control)

# "APPROVED FOR RELEASE: Tuesday, August 01, 2000

CIA-RDP86-00513R001342

POPOV, D. V.

POPOV, D.V. "Determination of the Concentration of Polic Ifide of Barium in Solutions According to Specific Weight," Doklad Tsesoiuznoi Akademii Sel'skokhoziasitvennykh Nauk imeni V. I. Lenina, vol. 5, no. 9, 1240, pp. 38-40. 20 Akl

30: SIRA, SI-90-53, 15 December 1/53

PETROV, P.S.; POPOV, E.

Effect of the preliminary treatment of corn extract on the fermentation processes of penicillin and chlortetracycline.

fermentation processes of penicillin and chlortetracycline.

(MIRA 14:5)

Antibiotiki 5 20.2:117-119 Mr-Ap '60.

1. Medzavod No.4, Bolgariya, g. Razgrad. (PENICILLIN) (AUREOMYCIN)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013423

POPOV, E.

Cancer of the pancreas. Nauch. tr. vissh. med. inst. Sofia 40 no.5: 157-169 '61.

1. Predstavena ot prof. B. Kurdzhiev, rukovoditel na Katedrata po patologichna anatomiia.

(PANCREAS neop1)

M

Country : BULGARIA

Category: Cultivated Plants. Fruits. Berries.

Abs Jour: RZhBiol., No 22, 1958, No 100430

Author : Popov, Emil; Boykov, Dimit'r; Panov, Vasil

Inst

: The State and the Possibilities of the Development Title

of Horticulture in Bulgaria.

Orig Pub: Selskostop. mis"1, 1957, 2, No 6, 321-331

Abstract: In 1896, regardless of favorable natural

conditions, orchards occupied about 4842 hectares; in 1929, the orchard area enlarged to 18644 hectares, among them 63.8% of the area under plums, 34.6% under mixed orchards (plum, sweet cherry, cherry, apple, pear, nuts, apri-

card : 1/2

#### APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013423

Country: BULGARIA

Category: Cultivated Plants. Fruits. Berries.

Abs Jour: RZhBiol., No 22, 1958, No 100430

cots, peach, quince), 1.36% under apple trees and 0.2% under pear trees. In 1944 the area increased to 55511 hectares, along with which the area under plums decreased (to 34%) and the area under apple\_trees increased (to 33%). In 1956 - to 11470 /?sic/ hectares along with an enlargement of the areas under apricot, cherry, sweet cherry, peach, raspberry and wild strawberry. Shortcomings in the management of orchard cultivation are being discovered and measures for its improvement are being

planned. -- K.M. Lyutikov

: 2/2 Card

BERCHEV, kr.; POPOV, E.

On patho-anatomical changes during biomycin therapy. (Contribution to a case of intravenous biomycin therapy). Suvr. med. 12 no.6:91-96 '61.

1. Iz Katedrata po patologichna anatomiia pri Visshiia meditsinski institut, Sofiia, (Rukovoditel na katedrata prof. B. Kardzhiev)

(CHLORTETRACYCLINE toxicol)

POPOV, E., inzh.

Determining the most economical dimensions of rectangular grooves in the rotors of electric machines. Mashinostroene 12 no.8:27-28 Ag '63.

1. NIPKIEP.

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013423

POPOV, E.A.

ente transmitation de la company de la compa

Design for critical speeds of the EVA electric spindle of acetate silk spinning machines. Izv. vys. ucheb. zav.; tekn. tekst. prom. no.2:149-154 '65. (MIRA 18:5)

1. Moskovskiy tekstil'nyy institut.

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013423

Experiments in stimulating sugar beets with dry chemical mixtures.

[Example of the content of the content of the chemical services of the content of the chemical services of the chemical services

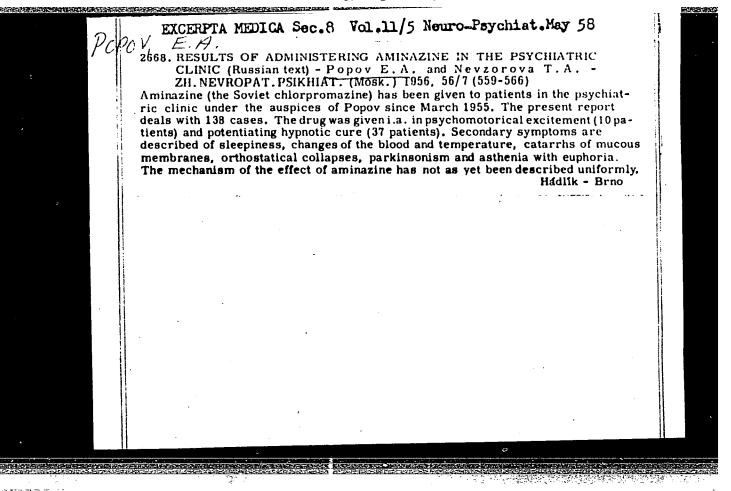
POPOV, E. A. (Prof.)
From Russian for Dr. Seymour Perlin
Zhurnal Nevropatologii i Psikhiatrii imeni S. S. Korsakova,
57, 9: 1101-1105, 1957

The problem of so-called "familial" schizophrenia by

A. G. Ambrumova

(Psychiatric Clinic (Prof. E. A. Popov, Director), First Moscow Order of Lenin Medical Institute).

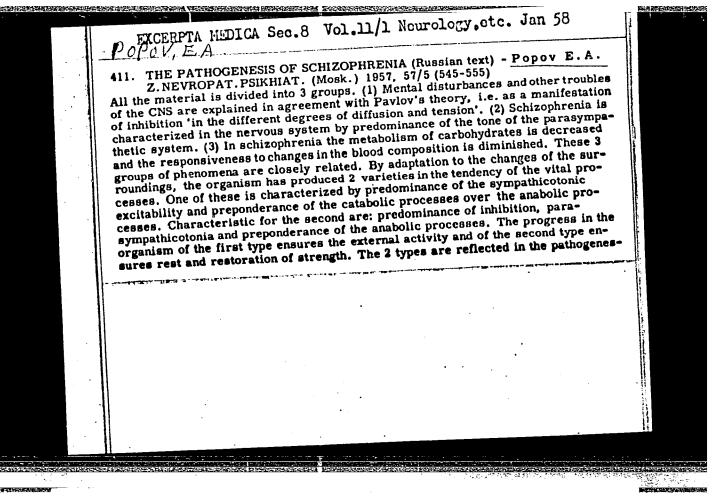
Translated at the National Institutes of Health, Bethesda, Maryland. Full translation available in \_\_\_\_/M.



GILYAROVSKIY, V.A. (Prof.) and POPOV, E.A. (Prof.)

"Actual Problems of Psychiatry"

Paper given before the Office of the Division for Clinical Medicine, AMS, December 1955.



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	is. The manic state can be interpreted as a pathological variety of the first and schizophrenia as a morbid variation of the second type. From this point of view, all the principal manifestations of schizophrenia present themselves as factors connected with each other by a single and unique biological complex.									
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## POPOV, E.

Field experiments in stimulation and chemical investigation of sugar beet. p. 19

Bulgarska akademiia na naukite. Institut po biologia "Metodi Popov." IZVESTIA. BULLETIN. Sofia, Bulgaria., Vol. 9, 1958

Monthly List of East European Accessions (EEAI), LC, Vol. 8, No. 12, December 1959 Uncl.

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